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SUMMARY

An NCCPA-certified physician assistant licensed in Connecticut, Virginia, Pennsylvania and Minnesota to practice under the supervision of a physician, including the full range of clinical practice such as performing physical exams, diagnosing illnesses, formulating treatment plans, ordering tests, prescribing medications, and assisting in surgery. Additional training and experience in minor and major surgical procedures. More than 20 years of prior experience in engineering, program/project management, and information systems development and deployment, including 8 years leading or advising enterprise architecture projects in the life sciences field.

PROFESSIONAL EXPERIENCE

CLINICAL EXPERIENCE

PHYSICIAN ONE URGENT CARE, Glastonbury, Connecticut 2015 – Present

STAFF PHYSICIAN ASSISTANT

Sole provider per shift in a clinic providing acute medical care for 20 to 50 or more patients per day. Specifically responsible for providing medical care to patients presenting with a wide variety of acute illnesses or injuries. Duties include triaging, diagnosing, and either treating and/or referring to a higher level of medical care (e.g., hospital emergency department). Typical illnesses and injuries include, but are not limited to, upper respiratory infections, urinary tract infections, influenza, acute abdominal pain, acute chest pain, essential hypertension, soft tissue injuries, lacerations, abscesses, sprains, and fractures. Also responsible for providing direction to clinical staff that includes one or more patient service associates, medical assistants, and radiology technicians.

NORWALK HOSPITAL/YALE SCHOOL OF MEDICINE 2014 - 2015

PA SURGICAL RESIDENT

Completed a structured surgical residency similar to that received by first-year MD surgical interns and includes a year-long series of daily lectures in general surgery and the subspecialties, clinical anatomy, and evaluation of specific organ systems. Also included are managing surgical emergencies, critical care, trauma complications and post-operative management, along with monthly conferences including Surgical Grand Rounds, Trauma Rounds and periodic Morbidity and Mortality Conferences. Surgical training includes thoracic and vascular, colorectal, bariatric, genitourinary, orthopaedic, plastic/reconstructive, neurosurgery, trauma, otolaryngological and gynecological. The surgical service is managed on a daily basis by the physician assistants so the training includes overnight call for each resident every few days.

NASA JOHNSON SPACE CENTER, Houston, Texas 2013 – 2014

HMS TRAINING/SPACE MEDICINE OPERATIONS

Responsibilities included performing duties as the lead for space medicine training for assigned International Space Station (ISS) expeditions, training astronauts and flight controllers on various medical procedures, working in the Houston Mission Control Center guiding the astronauts in performing in-flight medical procedures (such as phlebotomy, ocular health or ultrasound), supporting EVAs as a medical monitor (e.g. vital signs, ECGs), and serving as the Subject Matter Expert (SME) for all Space Medicine remote guidance activities.

GEORGE WASHINGTON UNIVERSITY SCHOOL OF MEDICINE AND HEALTH SCIENCES 2011-2013

PHYSICIAN ASSISTANT STUDENT

Completed a one-year series of clinical rotations, including the following:

General Surgery	<u>GWU Hospital</u> – Obtained surgical history, physical evaluation, and management of the surgical hospitalized and outpatients. Assisted in open and laparoscopic surgical procedures including cholecystectomy, appendectomy, hernia repair, and thyroidectomy.
OB/GYN	<u>GWU Hospital</u> – Obtained clinical experience in labor and delivery with the hospitalized and clinical patient. Responsible for obstetrical and gynecological history and physical examinations; pre-and post-partum care; counseling; diagnostic studies; treatment and management of common obstetrical and gynecological problems.
Psychiatry	<u>Washington VA Hospital</u> – Obtained a complete history, with a detailed psychiatric history, mental status examination, physical examination, identification, treatment and management of common mental disorders.
Internal Medicine	<u>GWU Hospital</u> – Elicited a complete history and performed an organized, and complete physical exam on hospitalized patients. Synthesized information gathered; formulate problem list, initiated treatment and management in conjunction with preceptors.
Neurosurgery	<u>INOVA Fairfax Hospital</u> – Obtained clinical and surgical experience in the care and management of hospitalized patients suffering from head trauma, seizure, tumor, and other neurological disease/injury. Performed surgical duties as first- and second-assistant and provided per-operative care for patients in the neuro-ICU, trauma-ICU, and surgical floor.
Emergency Medicine	<u>GWU Hospital</u> – Managed and treated common emergency room problems, with special emphasis of life threatening patient care and management. Performed venipuncture, interpreted blood, and urine, sound cultures, suturing lacerations, IV insertion and preparation; assisted with placement of endotracheal intubations and chest tubes.
Primary Care	<u>Pan-American Internal Medicine</u> – Managed and treated common medical problems of ambulatory patients, with special emphasis family medicine and preventative care. Performed physical examinations, ordered routine laboratory tests, gave vaccinations, and counseled patients on maintaining healthy lifestyles.
Pediatrics	<u>Mary Washington Hospital</u> – Performed pediatric examinations, family counseling, evaluation of growth, development and nutritional needs, diagnostic studies, treatment and management of common pediatric problems.
Aerospace Medicine	<u>NASA Johnson Space Center</u> – Attended formal lectures on medicine topics and issues, as well as familiarization with the medical aspects of International Space Station operations, design and function. Completed research project on the symptoms, etiology, treatment, and prognosis entry motion sickness to the JSC Medical Community.

VENTURA ORTHOPEDICS AND SPORTS MEDICINE, Simi Valley, CA 2010 – 2011

CERTIFIED SURGICAL TECHNOLOGIST

Scrubbed or assisted on a variety of orthopedic surgical cases including total knee and hip arthroplasties, shoulder hemiarthroplasties, spinal fusions, laminectomies, microdiscectomies, spinal kyphoplasties, and arthroscopies. Also assisted in clinic taking patient histories, assisting with physical exams, setting casts, splints and orthopedic braces, removing sutures and staples, and dressing incisions and wounds. Maintained patient medical records using electronic patient record system and transmitted patient prescriptions to pharmacies and other healthcare facilities.

OTHER WORK EXPERIENCE

CALIFORNIA LUTHERAN UNIVERSITY, Thousand Oaks, CA 2007 – 2011

ADJUNCT PROFESSOR

Developed and delivered graduate-level computer science courses, including the following:

- Specification and Design
- Advanced Operating Systems
- Computer Architecture
- Advanced Algorithms
- Bioinformatics

In addition to delivering weekly lectures, responsibilities included curriculum development, designing and evaluating laboratory projects and examinations, and mentoring graduate engineering students.

AMGEN, INC., Thousand Oaks, CA 2004 – 2007

SPECIALIST IT SYSTEMS ANALYST/PROJECT MANAGER

Project lead for the development and implementation of information systems supporting marketing and research:

- Led the design and development of two key product web sites that improved patient compliance by approximately 15%
- Managed a team engaged in the development and implementation of laboratory information management systems for pre-clinical research, contributing to improved lab productivity and workflow management
- Championed the global e-business strategy and digital marketing team for an Amgen business unit

RL OWEN & ASSOCIATES, Valencia, CA 2002 – 2004

MANAGING PARTNER

Founded and managed a technology and intellectual property consulting practice, focusing on technology strategy, patent portfolio analysis, and patent prosecution:

- Served as interim VP of Business Development for a medical systems developer, focusing on strategic partnerships and business development
- Served as interim Chief Technology Officer for hydrogen sensor manufacturer, focusing on technology and product development strategy

IBM GLOBAL SERVICES, Santiago, Chile 2001 – 2002

PRINCIPAL - WIRELESS E-BUSINESS SERVICES

Built and managed IBM's wireless e-business services consulting practice in Latin America, including operational management of wireless programs involving IBM and its strategic partners.

- Developed and executed a regional strategic plan that increased customer base by 28%

- Led cross-functional consulting teams that delivered a 40% increase in revenue within 12 months
- Developed a training program that improved knowledge transfer among stakeholders, partners and consultants

CISCO SYSTEMS, INC., San Jose, CA 2000 – 2001

MANAGER, PARTNER PROGRAMS - MOBILE WIRELESS GROUP

Engineering program manager for end-to-end mobile wireless systems:

- Led the development of a modular wireless internetworking system for small and medium scientific applications that increased the potential market for small wireless networking systems
- Co-managed a cross-functional team in developing standard design and deployment processes modular data management and networking systems, reducing the need for expensive technical consultants
- Led the deployment, implementation and testing of a medical image storage system that reduced image retrieval times by up to 80%
- Created new strategic partnerships with two medical imaging equipment suppliers, increasing segment revenue by 14%

PUBLICATIONS

R Owen and E Kertzman, "A Review of Entry Motion Sickness," Presented to the Space Medicine Community, NASA JSC, Houston, TX April 2013.

R. Owen and S. McKeever, "Validation of Compositional Cardiac Cell Models", accepted to *Computers in Cardiology* 2007.

R Owen and C Deane, "On the Creation of Provably-Correct Models of Biological Structure and Process," *ISMB* 2006, Fortaleza, Brazil, August 6-10, 2006.

RL Owen, S McKeever, J Davies, A Garfinkel, "Toward Provably Correct Models of Ventricular Cell Function," *Computers in Cardiology* 2006; 33: 657-660.

Amini, A., Owen, R., Anandan, P. and J.S. Duncan, "Non-rigid Motion Models for Tracking the Left Ventricular Wall", Information Processing in Medical Imaging, Wye, England, July, 1991. *Lecture Notes in Computer Science, Vol. 511*, Springer Verlag, A. Colchester and D. Hawkes, eds., Pp. 343-357.

Duncan, J.S., R. Owen, L. Staib and P. Anandan, "Measurement of Non-rigid Motion Using Contour Shape Descriptors," *Computer Vision and Pattern Recognition*, IEEE Computer Society Press, Maui, Hawaii, June, 1991. Pp. 318-324.

Amini, A., Owen, R., Anandan, P. and J. Duncan, "Two and Three Dimensional Motion Models for the Left Ventricular Wall," in *Proceedings of the 17th Annual Northeast Bioengineering Conference*, Hartford, Connecticut, April, 1991. Pp. 193-194.

Duncan, J.S., R. Owen, P. Anandan, T. McCauley, A. Salazar and F. Lee, "Shape-Based Tracking of LV Wall Motion," *Computers in Cardiology*, Chicago, September, 1990. Pp. 41-44.

Duncan, J.S., Staib, L., Birkholzer, T., Owen, R., Anandan, P., and I. Bozma, "Medical Image Analysis Using Model-Based Optimization," *Visualization in Biomedical Computing*, Atlanta, Georgia, May, 1990. Pp. 370 -377.

Owen, R., Staib, L., Anandan, P., and J.S. Duncan, "Measurement of Left Ventricular Wall Motion from Contour Shape Deformation," *Information Processing in Medical Imaging*, Berkeley, California, June, 1989, Progress in Clinical and Biological Research, Vol. 363, Wiley-Liss, D. Ortendahl and J. Llacer, eds., Pp. 541-556.

EDUCATION

Harvard Medical School, Boston, MA
Department of Global Health and Social Medicine
Research Fellowship, Bioethics

The George Washington University, Washington, DC
M.S. Health Science (Physician Assistant)

University of Oxford, Oxford, United Kingdom
M.Sc. in Bioinformatics

Yale University, New Haven, CT
M.S., M.Phil., Electrical Engineering

University of Texas at Dallas
B.A. in Physics (*magna cum laude*)

Harvard University, Cambridge, MA
A.A. in Extension Studies